Section 1. Identification

1.1 Product identifier
Product name: GC - MS Semi-Volatiles Analyzer Checkout Mix, Part Number 5190-0473
Part No.: 5190-0473
Validation date: 12/26/2017

1.2 Relevant identified uses of the substance or mixture and uses advised against
Material uses: Reagents and Standards for Analytical Chemistry Laboratory Use
3 x 1 ml

1.3 Details of the supplier of the safety data sheet
Supplier/Manufacturer: Agilent Technologies, Inc.
5301 Stevens Creek Blvd
Santa Clara, CA 95051, USA
800-227-9770

1.4 Emergency telephone number
In case of emergency: CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

2.1 Classification of the substance or mixture
OSHA/HCS status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture
H302: ACUTE TOXICITY (oral) - Category 4
H315: SKIN IRRITATION - Category 2
H319: EYE IRRITATION - Category 2A
H350: CARCINOGENICITY - Category 1B
H335: SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
H336: SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
H373: SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, liver) - Category 2

2.2 GHS label elements
Signal word: Danger
Hazard statements: H302 - Harmful if swallowed.
H319 - Causes serious eye irritation.
H315 - Causes skin irritation.
H350 - May cause cancer.
H335 - May cause respiratory irritation.
H336 - May cause drowsiness or dizziness.
H373 - May cause damage to organs through prolonged or repeated exposure. (blood
Section 2. Hazards identification

Precautionary statements

Prevention

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.
P271 - Use only outdoors or in a well-ventilated area.
P260 - Do not breathe vapor.
P270 - Do not eat, drink or smoke when using this product.
P264 - Wash hands thoroughly after handling.

Response

P314 - Get medical attention if you feel unwell.
P308 + P313 - IF exposed or concerned: Get medical attention.
P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.
P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.
P302 + P352 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.
P332 + P313 - If skin irritation occurs: Get medical attention.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical attention.

Storage

P405 - Store locked up.

Disposal

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

2.3 Other hazards

Hazards not otherwise classified

None known.

Section 3. Composition/information on ingredients

Substance/mixture

Mixture

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>%</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dichloromethane</td>
<td>≥90</td>
<td>75-09-2</td>
</tr>
<tr>
<td>Dimethylnitrosoamine</td>
<td>≤0.1</td>
<td>62-75-9</td>
</tr>
</tbody>
</table>

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

4.1 Description of necessary first aid measures

Eye contact

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of
Section 4. First aid measures

Inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Skin contact**

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion**

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**4.2 Most important symptoms/effects, acute and delayed**

**Potential acute health effects**

**Eye contact**

Causes serious eye irritation.

**Inhalation**

Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.

**Skin contact**

Causes skin irritation.

**Ingestion**

Harmful if swallowed. Can cause central nervous system (CNS) depression.

**Over-exposure signs/symptoms**

**Eye contact**

Adverse symptoms may include the following:

- pain or irritation
- watering
- redness

**Inhalation**

Adverse symptoms may include the following:

- respiratory tract irritation
- coughing
- nausea or vomiting
- headache
- drowsiness/fatigue
- dizziness/vertigo
- unconsciousness

**Skin contact**

Adverse symptoms may include the following:

- irritation
- redness

**Ingestion**

No specific data.

**4.3 Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to physician**

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments**

No specific treatment.

**Protection of first-aiders**

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

**Date of issue:** 12/26/2017
Section 5. Fire-fighting measures

5.1 Extinguishing media
Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture
Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
halogenated compounds
carbonyl halides

5.3 Advice for firefighters
Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Remark : When heated, flammable vapors will be evolved.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up
Methods for cleaning up : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Date of issue : 12/26/2017
Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations: Industrial applications, Professional applications.

Industrial sector specific solutions: Not applicable.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dichloromethane</td>
<td>ACGIH TLV (United States, 3/2017).</td>
</tr>
<tr>
<td></td>
<td>TWA: 50 ppm 8 hours.</td>
</tr>
<tr>
<td></td>
<td>TWA: 174 mg/m³ 8 hours.</td>
</tr>
<tr>
<td></td>
<td>STEL: 125 ppm 15 minutes.</td>
</tr>
<tr>
<td></td>
<td>TWA: 25 ppm 8 hours.</td>
</tr>
<tr>
<td></td>
<td>OSHA PEL Z2 (United States, 2/2013).</td>
</tr>
<tr>
<td></td>
<td>STEL: 125 ppm 15 minutes.</td>
</tr>
<tr>
<td></td>
<td>TWA: 25 ppm 8 hours.</td>
</tr>
<tr>
<td>DimethylNitrosoamine</td>
<td>ACGIH TLV (United States, 3/2017).</td>
</tr>
<tr>
<td></td>
<td>Absorbed through skin.</td>
</tr>
</tbody>
</table>

8.2 Exposure controls

Appropriate engineering controls: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Date of issue: 12/26/2017
Section 8. Exposure controls/personal protection

Individual protection measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state: Liquid. [Clear.]
Color: Colorless.
Odor: Chloroform.
Odor threshold: Not available.
pH: Not available.
Melting point: -97°C (-142.6°F)
Boiling point: 40°C (104°F)
Flash point: Not available.
Evaporation rate: 27.5 (butyl acetate = 1)
Flammability (solid, gas): Not applicable.
Lower and upper explosive (flammable) limits: Not available.
Vapor pressure: 47.1 kPa (353.1 mm Hg) [room temperature]
Vapor density: 2.93 [Air = 1]
Relative density: Not available.
Density: 1.32 g/cm³
Solubility: Very slightly soluble in the following materials: cold water and hot water.

Date of issue: 12/26/2017
Section 9. Physical and chemical properties

- **Partition coefficient: n-octanol/water**: Not available.
- **Auto-ignition temperature**: 556.1°C (1033°F)
- **Decomposition temperature**: Not available.
- **Viscosity**: Not available.

Section 10. Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : May react or be incompatible with oxidizing materials. Reactive or incompatible with the following materials: metals and alkalis, aluminum, Magnesium.

10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

11.1 Information on toxicological effects

**Acute toxicity**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dichloromethane</td>
<td>LC50 Inhalation Vapor</td>
<td>Rat</td>
<td>76000 mg/m³</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>985 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>DimethylNitrosoamine</td>
<td>LC50 Inhalation Vapor</td>
<td>Rat</td>
<td>78 ppm</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>26 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

**Irritation/Corrosion**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dichloromethane</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>162 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 100 milligrams</td>
<td>-</td>
</tr>
</tbody>
</table>

**Conclusion/Summary Skin** : Repeated exposure may cause skin dryness or cracking.

**Sensitization**

Not available.

**Mutagenicity**

Not available.

**Carcinogenicity**

Not available.

**Classification**

Date of issue : 12/26/2017
Section 11. Toxicological information

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>OSHA</th>
<th>IARC</th>
<th>NTP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dichloromethane</td>
<td>+</td>
<td>2A</td>
<td></td>
</tr>
<tr>
<td>Dimethylnitrosoamine</td>
<td>+</td>
<td>2A</td>
<td></td>
</tr>
</tbody>
</table>

**Reproductive toxicity**
Not available.

**Teratogenicity**
Not available.

**Specific target organ toxicity (single exposure)**

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dichloromethane</td>
<td>Category 3</td>
<td>Not applicable.</td>
<td>Respiratory tract irritation and Narcotic effects</td>
</tr>
</tbody>
</table>

**Specific target organ toxicity (repeated exposure)**

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dichloromethane</td>
<td>Category 2</td>
<td>Not determined</td>
<td>blood system and liver</td>
</tr>
<tr>
<td>Dimethylnitrosoamine</td>
<td>Category 1</td>
<td>Not determined</td>
<td>liver</td>
</tr>
</tbody>
</table>

**Aspiration hazard**
Not available.

**Information on the likely routes of exposure**
Routes of entry anticipated: Oral, Dermal, Inhalation.

**Potential acute health effects**

- **Eye contact**: Causes serious eye irritation.
- **Inhalation**: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
- **Skin contact**: Causes skin irritation.
- **Ingestion**: Harmful if swallowed. Can cause central nervous system (CNS) depression.

**Symptoms related to the physical, chemical and toxicological characteristics**

- **Eye contact**: Adverse symptoms may include the following:
  - pain or irritation
  - watering
  - redness

- **Inhalation**: Adverse symptoms may include the following:
  - respiratory tract irritation
  - coughing
  - nausea or vomiting
  - headache
  - drowsiness/fatigue
  - dizziness/vertigo
  - unconsciousness

- **Skin contact**: Adverse symptoms may include the following:
  - irritation
  - redness

- **Ingestion**: No specific data.

**Date of issue**: 12/26/2017
Section 11. Toxicological information

Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure**
- **Potential immediate effects**: Not available.
- **Potential delayed effects**: Not available.

**Long term exposure**
- **Potential immediate effects**: Not available.
- **Potential delayed effects**: Not available.

**Potential chronic health effects**
- **General**: May cause damage to organs through prolonged or repeated exposure.
- **Carcinogenicity**: May cause cancer. Risk of cancer depends on duration and level of exposure.
- **Mutagenicity**: No known significant effects or critical hazards.
- **Teratogenicity**: No known significant effects or critical hazards.
- **Developmental effects**: No known significant effects or critical hazards.
- **Fertility effects**: No known significant effects or critical hazards.

**Numerical measures of toxicity**

**Acute toxicity estimates**

<table>
<thead>
<tr>
<th>Route</th>
<th>ATE value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>985.3 mg/kg</td>
</tr>
</tbody>
</table>

**Other information**: Adverse symptoms may include the following: central nervous system depression, headache, nausea or vomiting, dizziness/vertigo, drowsiness/fatigue, carboxyhemoglobinemia

Section 12. Ecological information

12.1 Toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dichloromethane</td>
<td>Acute EC50 242 mg/l Fresh water</td>
<td>Algae - Chlamydomonas reinhardii - Exponential growth phase</td>
<td>72 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 0.98 mg/l Fresh water</td>
<td>Algae - Chlorella vulgaris</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 990000 µg/l Fresh water</td>
<td>Fish - Pimephales promelas</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 108500 µg/l Marine water</td>
<td>Crustaceans - Palaemonetes pugio - Juvenile (Fledgling, Hatchling, Weanling)</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 220000 µg/l Fresh water</td>
<td>Daphnia - Daphnia magna</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 56000 µg/l Fresh water</td>
<td>Algae - Pseudokirchneriella subcapitata</td>
<td>96 hours</td>
</tr>
<tr>
<td>Dimethylnitrosoamine</td>
<td>Acute EC50 4000 µg/l Fresh water</td>
<td>Algae - Pseudokirchneriella subcapitata</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 940000 µg/l Fresh water</td>
<td>Fish - Pimephales promelas</td>
<td>96 hours</td>
</tr>
</tbody>
</table>

12.2 Persistence and degradability

Date of issue: 12/26/2017
Section 12. Ecological information

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Aquatic half-life</th>
<th>Photolysis</th>
<th>Biodegradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dichloromethane</td>
<td>-</td>
<td>-</td>
<td>Not readily</td>
</tr>
</tbody>
</table>

12.3 Bioaccumulative potential

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Log$P_{ow}$</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dichloromethane</td>
<td>1.25</td>
<td>22.91</td>
<td>low</td>
</tr>
<tr>
<td>Dimethyl Nitrosoamine</td>
<td>-0.57</td>
<td>-</td>
<td>low</td>
</tr>
</tbody>
</table>

12.4 Mobility in soil

Soil/water partition coefficient ($K_{oc}$): Not available.

12.5 Other adverse effects: No known significant effects or critical hazards.

Section 13. Disposal considerations

13.1 Waste treatment methods

Disposal methods: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Toxic hazardous waste "U" List

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS #</th>
<th>Status</th>
<th>Reference number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene chloride; Methane, dichloro-</td>
<td>75-09-2</td>
<td>Listed</td>
<td>U080</td>
</tr>
</tbody>
</table>

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.
Section 14. Transport information

DOT / TDG / Mexico / IMDG / IATA : Not regulated.
Remarks: De minimis quantities

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL and the IBC Code : Not available.

Section 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

U.S. Federal regulations : TSCA 4(a) final test rules: Endrin (ISO)
TSCA 5(a)2 final significant new use rules: DDT
TSCA 8(a) PAIR: Atrazine (ISO); 2,4-Dinitrophenol; 2,4-Dinitrotoluene; 3,5, 5-Trimethylcyclohex-2-enone; (\(^2\)H\(_8\))Naphthalene; 1,4-Dichlorobenzene-D4
TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Water Act (CWA) 307: Dichloromethane; DDT; Endrin (ISO); Heptachlor epoxide; Aldrin (ISO); 2,4-Dinitrophenol; 2,4-Dinitrotoluene; 3,5, 5-Trimethylcyclohex-2-enone; 4-nitrophenol; DNOC (ISO); Dimethylnitrosamine; Pentachlorophenol; Benz[e]acephenanthrylene; Fluorene; Phenanthrene-D\(^{10}\); (\(^2\)H\(_8\))Naphthalene; Perylene-D12; 1,4-Dichlorobenzene-D4; Acenaphthene-D10; Chrysene-D12

Clean Water Act (CWA) 311: DDT; Endrin (ISO); Aldrin (ISO); 2,4-Dinitrophenol; 2, 4-Dinitrotoluene; 4-nitrophenol; Pentachlorophenol; Aniline; (\(^2\)H\(_8\))Naphthalene; 1, 4-Dichlorobenzene-D4; Mevinphos (ISO)

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Listed
Clean Air Act Section 602 Class I Substances : Not listed
Clean Air Act Section 602 Class II Substances : Not listed
DEA List I Chemicals (Precursor Chemicals) : Not listed
DEA List II Chemicals (Essential Chemicals) : Not listed
SARA 302/304 Composition/information on ingredients

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Section 15. Regulatory information

### SARA 313

<table>
<thead>
<tr>
<th>Name</th>
<th>%</th>
<th>Classification</th>
</tr>
</thead>
</table>
| Dichloromethane               | ≥90  | ACUTE TOXICITY (oral) - Category 4  
SKIN IRRITATION - Category 2  
EYE IRRITATION - Category 2A  
CARCINOGENICITY - Category 2  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, liver) - Category 2 |
| Dimethylnitrosoamine          | ≤0.1 | FLAMMABLE LIQUIDS - Category 4  
ACUTE TOXICITY (oral) - Category 2  
GERM CELL MUTAGENICITY - Category 2  
CARCINOGENICITY - Category 1B  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (liver) - Category 1 |

### SARA 304 RQ

<table>
<thead>
<tr>
<th>Name</th>
<th>%</th>
<th>EHS (lbs)</th>
<th>EHS (gallons)</th>
<th>SARA 302 TPQ</th>
<th>SARA 304 RQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-tert-Butyliothioyl O,O-diethylphosphorodithioate</td>
<td>≤0.1</td>
<td>Yes.</td>
<td>100</td>
<td>10.9</td>
<td>100</td>
</tr>
<tr>
<td>Endrin (ISO)</td>
<td>≤0.1</td>
<td>Yes.</td>
<td>500 / 10000</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>Aldrin (ISO)</td>
<td>≤0.1</td>
<td>Yes.</td>
<td>500 / 10000</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>Hexachlorocyclopentadiene</td>
<td>&lt;0.1</td>
<td>Yes.</td>
<td>100</td>
<td>7.1</td>
<td>10</td>
</tr>
<tr>
<td>DNOCS (ISO)</td>
<td>&lt;0.1</td>
<td>Yes.</td>
<td>10 / 10000</td>
<td>-</td>
<td>10</td>
</tr>
<tr>
<td>Dimethylnitrosoamine</td>
<td>≤0.1</td>
<td>Yes.</td>
<td>1000</td>
<td>118.7</td>
<td>10</td>
</tr>
<tr>
<td>Aniline</td>
<td>&lt;0.1</td>
<td>Yes.</td>
<td>1000</td>
<td>117.6</td>
<td>5000</td>
</tr>
<tr>
<td>Mevinphos (ISO)</td>
<td>≤0.1</td>
<td>Yes.</td>
<td>500</td>
<td>48</td>
<td>10</td>
</tr>
</tbody>
</table>

**SARA 304 RQ**: 100000 lbs / 45400 kg [9085.9 gal / 34393.9 L]

**SARA 311/312**

**Composition/information on ingredients**

<table>
<thead>
<tr>
<th>Name</th>
<th>%</th>
<th>Classification</th>
</tr>
</thead>
</table>
| Dichloromethane               | ≥90  | ACUTE TOXICITY (oral) - Category 4  
SKIN IRRITATION - Category 2  
EYE IRRITATION - Category 2A  
CARCINOGENICITY - Category 2  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, liver) - Category 2 |
| Dimethylnitrosoamine          | ≤0.1 | FLAMMABLE LIQUIDS - Category 4  
ACUTE TOXICITY (oral) - Category 2  
GERM CELL MUTAGENICITY - Category 2  
CARCINOGENICITY - Category 1B  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (liver) - Category 1 |

### SARA 313

<table>
<thead>
<tr>
<th>Product name</th>
<th>CAS number</th>
<th>%</th>
<th>Classification</th>
</tr>
</thead>
</table>
| Dichloromethane | 75-09-2 | ≥90  | ACUTE TOXICITY (oral) - Category 4  
SKIN IRRITATION - Category 2  
EYE IRRITATION - Category 2A  
CARCINOGENICITY - Category 2  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, liver) - Category 2 |
| Aldrin (ISO) | 309-00-2 | ≤0.1 | ACUTE TOXICITY (oral) - Category 2  
GERM CELL MUTAGENICITY - Category 2  
CARCINOGENICITY - Category 1B  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (liver) - Category 1 |
| Trifluralin (ISO) | 1582-09-8 | <0.1 | ACUTE TOXICITY (oral) - Category 2  
GERM CELL MUTAGENICITY - Category 2  
CARCINOGENICITY - Category 1B  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (liver) - Category 1 |
| Pentylene-D12 | 1520-96-3 | ≤0.1 | ACUTE TOXICITY (oral) - Category 2  
GERM CELL MUTAGENICITY - Category 2  
CARCINOGENICITY - Category 1B  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (liver) - Category 1 |
| Chrysene-D12 | 1719-03-5 | <0.1 | ACUTE TOXICITY (oral) - Category 2  
GERM CELL MUTAGENICITY - Category 2  
CARCINOGENICITY - Category 1B  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (liver) - Category 1 |

**Form R - Reporting requirements**

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS number</th>
<th>%</th>
<th>Classification</th>
</tr>
</thead>
</table>
| Dichloromethane               | 75-09-2 | ≥90  | ACUTE TOXICITY (oral) - Category 4  
SKIN IRRITATION - Category 2  
EYE IRRITATION - Category 2A  
CARCINOGENICITY - Category 2  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, liver) - Category 2 |
| Aldrin (ISO)                  | 309-00-2 | ≤0.1 | ACUTE TOXICITY (oral) - Category 2  
GERM CELL MUTAGENICITY - Category 2  
CARCINOGENICITY - Category 1B  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (liver) - Category 1 |
| Trifluralin (ISO)             | 1582-09-8 | <0.1 | ACUTE TOXICITY (oral) - Category 2  
GERM CELL MUTAGENICITY - Category 2  
CARCINOGENICITY - Category 1B  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (liver) - Category 1 |
| Pentylene-D12                 | 1520-96-3 | ≤0.1 | ACUTE TOXICITY (oral) - Category 2  
GERM CELL MUTAGENICITY - Category 2  
CARCINOGENICITY - Category 1B  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (liver) - Category 1 |
| Chrysene-D12                  | 1719-03-5 | <0.1 | ACUTE TOXICITY (oral) - Category 2  
GERM CELL MUTAGENICITY - Category 2  
CARCINOGENICITY - Category 1B  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (liver) - Category 1 |

**Supplier notification**

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS number</th>
<th>%</th>
<th>Classification</th>
</tr>
</thead>
</table>
| Dichloromethane               | 75-09-2 | ≥90  | ACUTE TOXICITY (oral) - Category 4  
SKIN IRRITATION - Category 2  
EYE IRRITATION - Category 2A  
CARCINOGENICITY - Category 2  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3  
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, liver) - Category 2 |

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### State regulations

**Massachusetts**: The following components are listed: METHYLENE CHLORIDE; DICHLOROMETHANE

**New York**: The following components are listed: Dichloromethane; Methylene chloride

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New Jersey: The following components are listed: METHYLENE CHLORIDE; DICHLOROMETHANE

Pennsylvania: The following components are listed: METHANE, DICHLORO-

California Prop. 65

⚠️ WARNING: This product can expose you to chemicals including DDT, 2,4-Dinitrotoluene, which are known to the State of California to cause cancer and birth defects or other reproductive harm. This product can expose you to chemicals including Chlorothalonil, Heptachlor epoxide, Aldrin, 3,3'-Dichlorobenzidine, N-Nitrosodimethylamine, Pentachlorophenol, Benzo[b]fluoranthene, Aniline, Phenanthrene-D10, (H8)Naphthalene, Perylene-D12, 1, 4-Dichlorobenzene-D4, Chrysene-D12, Dichloromethane, which are known to the State of California to cause cancer, and Atrazine, Endrin, Simazine, which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>No significant risk level</th>
<th>Maximum acceptable dosage level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorothalonil</td>
<td>Yes.</td>
<td>-</td>
</tr>
<tr>
<td>DDT</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Atrazine</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Endrin</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Heptachlor epoxide</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Aldrin</td>
<td>Yes.</td>
<td>-</td>
</tr>
<tr>
<td>Simazine</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>3,3'-Dichlorobenzidine</td>
<td>Yes.</td>
<td>-</td>
</tr>
<tr>
<td>2,4-Dinitrotoluene</td>
<td>Yes.</td>
<td>-</td>
</tr>
<tr>
<td>N-Nitrosodimethylamine</td>
<td>Yes.</td>
<td>-</td>
</tr>
<tr>
<td>Pentachlorophenol</td>
<td>Yes.</td>
<td>-</td>
</tr>
<tr>
<td>Benzo[b]fluoranthene</td>
<td>Yes.</td>
<td>-</td>
</tr>
<tr>
<td>Aniline</td>
<td>Yes.</td>
<td>-</td>
</tr>
<tr>
<td>Phenanthrene-D10</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>(H8)Naphthalene</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Perylene-D12</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1,4-Dichlorobenzene-D4</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Chrysene-D12</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Dichloromethane</td>
<td>Yes.</td>
<td>-</td>
</tr>
</tbody>
</table>

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia: Not determined.

Canada: Not determined.

China: Not determined.

Europe: Not determined.
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Japan : Japan inventory (ENCS): Not determined.  
Japan inventory (ISHL): Not determined.

Malaysia : Not determined.

New Zealand : Not determined.

Philippines : Not determined.

Republic of Korea : Not determined.

Taiwan : Not determined.

Thailand : Not determined.

Turkey : Not determined.

United States : Not determined.

Viet Nam : Not determined.

Section 16. Other information

History

Date of issue : 12/26/2017

Date of previous issue : 02/29/2016.

Version : 5

Notice to reader

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